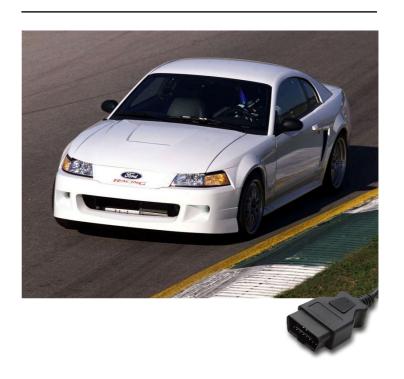AiM Infotech

Ford Mustang FR500C MS

Release 1.02

AiM

1
Car models

This tutorial explains how to connect Ford Mustang cars to AiM devices. Supported car models are:
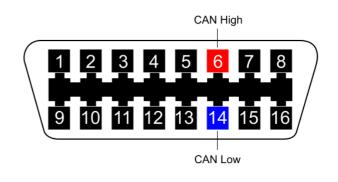
- Ford Mustang   FR500C MS

2
CAN bus connection

Ford Mustang FR500C MS cars feature a data communication bus based on CAN on the OBDII plug normally visible left over the steering wheel as shown here below on the left. On the right you see the OBDII connector pinout while under connection table is shown.

Pin number	Pin function	AiM cable label
6	CAN High	CAN+
14	CAN Low	CAN-

3

AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "Ford"
- ECU Model "FR500C_MS"

4

Available channels

Channels received by AiM devices connected to "Ford" "FR500C_MS" are:

ID	CHANNEL NAME	FUNCTION
ECU_1	MS_ENG_SPD	Engine speed
ECU_2	MS_VEH_SPD	Vehicle speed
ECU_3	MS_ACC_PDL_POS	Acceleration pedal position sensor
ECU_4	MS_WHL_SPD_FL	Front left wheel speed
ECU_5	MS_WHL_SPD_FR	Front right wheel speed
ECU_6	MS_WHL_SPD_RL	Real right wheel speed
ECU_7	MS_WHL_SPD_RR	Rear right wheel speed
ECU_8	MS_GEAR_PS_ACT	Engaged gear
ECU_9	MS_ABS_TELTAL	ABS
ECU_10	MS_TYRE_SZ	Tyre size
ECU_11	MS_ENG_COOL_T	Engine coolant temperature
ECU_12	MS_LOAD	Engine load
ECU_13	MS_DESI_LAMBDA	Desired lambda
ECU_14	MS_RH_LAMBDA	Right bank lambda value
ECU_15	MS_LH_LAMBDA	Left bank lambda value
ECU_16	MS_AIR_CH_TEMP	Intake air temperature

ECU_17	MS_CPS_SYNC	Sync
ECU_18	MS_FUEL_PRESS	Fuel pressure
ECU_19	MS_BATT_VOLT	Battery supply
ECU_20	MS_ZE_FR_TYRE	Front right tyre size
ECU_21	MS_ZE_RR_TYRE	Rear right tyre size
ECU_22	MS_MAF_VOLT	Mass air flow voltage
ECU_23	MS_AIR_FW_KgHr	Kg/Hour Air flow
ECU_24	MS_INJ_PW_Ms	Injection pulse width
ECU_25	MS_IAC_DC	Idle air control

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific and therefore may not be applicable.